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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-114834

(43)Date of publication of application: 24.04.2001

(51)Int.Cl.

COSF 30/02 GO1N 27/406 HO1B 1/06 HO1G 9/028 HO1M 8/02 // HO1M 6/18 HO1M 10/40

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(30)Priority

Priority number: 11119637 Priority date: 27.04.1999 Priority country: JP

11228686 12.08.1999 JP

(54) PHOSPHATE GROUP-CONTAINING POLYMER AND POLYMERIC SOLID ELECTROLYTE CONTAINING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a phosphate group-containing polymer material exhibiting high proton conductivity in a wide temperature range and a wide humidity range, and having such a heat-resisting property as to not exhibit any troubles when practically used, and to provide a polymeric solid electrolyte by using the same polymer.

(ただし、式(A)において、R₁はH又はCH₃であり、R₂はH₃CH₃

SOLUTION: This phosphate group-containing polymer is obtained by polymerizing an (meth)acrylic acid ester which contains an acidic phosphate group at a side chain terminal and is expressed by general formula (A) (R1 is H or CH3; R2 is H, CH3 or CH2Cl; n is a positive

integer of 1-6) as a main component. The polymeric solid

又はCH_CFであり、nd1~6の正の理数である。)

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electrolyte which is obtained by casting the phosphate group-containing polymer to form the film exhibits high proton conductivity in a wide temperature range and a wide humidity range.